



# FREDDY ANDRÉS CAMARGO

## DATA ANALYST / SCIENTIST

[www.andrescamargo.co](http://www.andrescamargo.co)

[LinkedIn](#)

andrescamargo.co@hotmail.com

642241024

[Github](#)

Versatile professional with expertise in leveraging advanced statistical analysis, data wrangling, visualization, and modeling to drive business growth. Proven track record in delivering insights, analytics, business intelligence, and comprehensive reports that enhance corporate strategy. Successful in consulting across various economic sectors, translating complex business needs into actionable solutions. Proficient in collaborating within interdisciplinary and multicultural environments to achieve impactful results.

### WORK EXPERIENCE

#### ● Data Scientist

**ING Bank Spain & Portugal**, Jun. 2023 – Sep. 2024, Madrid

- Executed mortgage and insurance analyses, driving a more effective commercial strategy and resulting in a 10% increase in revenue.
- Conducted a lifetime value and customer behavior study, and used findings to acquire 10K high-value clients and reduce product attrition by 5%.
- Segmented customers based on the transaction data of 4M clients, supporting a marketing campaign for savings accounts and generating 30K digital interactions per month.
- Developed a predictive model to optimize cross-sell rates, analyzing over 200 variables using data mining techniques.
- Collaborated with cross-functional teams to identify data-driven opportunities, creating reports, and presentations for stakeholders, ensuring data accuracy and relevance.

#### ● Data Scientist Intern

**DataLab - Fundación Juan March**, Feb. – Jun. 2023, Madrid

- Revitalized a demand forecasting model, enhancing coordination and logistics for over 1K users per week.
- Designed interactive map visualizations and KPI dashboards, reducing manual reporting time by 15 hours per week.

#### ● Executive Advisor

**Agroscience Industry Colombian Chamber**, Mar. – Aug. 2022, Bogotá

- Identified raw material suppliers across 8 countries, enhancing supply chain resilience and improving purchasing strategy, resulting in a 10% reduction in supply delays.
- Conducted pricing analysis for 70 products (fertilizers, insecticides, herbicides, and fungicides), establishing a scoring system that mitigated disruptive price increases.
- Analyzed a USD\$1.2M market for bio-agricultural products, uncovering growth opportunities across key agro-industrial categories and regions, which contributed to an investment of USD\$6M.
- Delivered strategic market insights to the board of directors, directly influencing key decisions.
- Clients: Yara, BASF, Bayer, Syngenta, UPL, Corteva, FMC, Sumitomo Chemicals, Adama, Precisagro, Gowan.

### Data Extraction

SQL, NoSQL, APIs,  
Web scraping, Surveys

### Data Programming / ETL

Python (Pandas, Numpy,  
Scikit-learn)  
R (Tidyverse, Caret)

### Data Visualization

Dashboards (Power BI, R),  
Advanced Graphs (Ggplot,  
Matplotlib, Plotly), maps

### Data Science

Statistical and Machine  
Learning models  
(supervised & unsupervised),  
hyperparameters tuning,  
EDAs, Hypothesis testing

### Time Series

(ARIMA, Prophet, ETS)

### Deep Learning

Neural Network  
Architectures (CNN, LSTM,  
GAN), images modeling, NLP  
- LLM (TensorFlow, Keras,  
PyTorch)

### Data Management

Data Warehouse, Data Lake,  
Data Marts, Data Integration,  
Data Modeling (ERD).

### Additional Techniques

Social Network Analysis  
(SNA), Causal Inference, Text  
Mining, Agent-Based  
Modeling (ABM)

## ● Industry Advisor for the Executive Vice President

**National Business Association of Colombia (ANDI), 2017 – Feb. 2022, Bogotá**

- Consolidated and processed 6M annual records of Colombia's historical trade data, and implemented dashboards that improved trade performance analysis for 6K products, reducing reporting time by 30%.
- Identified export market opportunities, driving on average a 30% increase in sales per company across 10 countries in the Americas and 5 in Africa.
- Provided consulting for 150+ business cases annually, leveraging trade and logistics data to reduce costs and lead times, delivering an average of USD \$100K in savings per company.
- Produced detailed industry reports with statistical insights, supporting strategic decision-making in the automotive, cosmetics, ceramics, textiles, and metalworking sectors.

## EDUCATION

### Master in Data Science / CSS - 100% in English

**University Charles III of Madrid, Spain, Sept. 2022 – Mar. 2024**

- Master Thesis: Inventory planning with time series forecasting at scale.

### Bachelor of Science in Political Science and International Relations

**Sergio Arboleda University, Colombia, 2016**

## SCHOLARSHIP & COURSES

### High-Quality Professionals International Scholarship, Madrid

**República de Colombia, 2022 - 2023**

### Bootcamp in Advanced Artificial Intelligence

**Minister of Technology of Colombia, May. 2024 – Oct. 2024**

### Certificate in Full Stack Web Development

**University of Antioquia, Colombia, 2021**

## SKILLS & LEADERSHIP

- **Languages:** English (IELTS 6.5), Spanish (Native).
- Active member of the Spanish Historical Fencing Association and the Madrid Historical Fencing School. I promote Historical European Martial Arts practice.

